CLAIMS

What is claimed is:

- 1. A thermoformable support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F, wherein the support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process.
- 2. The invention according to claim 1, further comprising a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 3. The invention according to claim 1, further comprising an adhesive film in abutting relationship with the support film.
- 4. The invention according to claim 1, further comprising a polymeric substrate in abutting relationship with the support film.
- 5. The invention according to claim 4, further comprising a release layer in abutting relationship with the support film.
- 6. The invention according to claim 5, wherein the release layer is operable to releasably adhere to the polymeric substrate.

- 7. The invention according to claim 6, further comprising a paint or color-containing film system in abutting relationship with the release layer.
- 8. The invention according to claim 7, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 9. The invention according to claim 7, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 10. The invention according to claim 1, further comprising a paint or color-containing film system in abutting relationship with the support film.
- 11. The invention according to claim 10, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 12. The invention according to claim 10, wherein the support film is operable to releasably adhere to the paint or color-containing film system.
- 13. The invention according to claim 1, wherein the polymeric substrate is formed into an automotive component.
- 14. The invention according to claim 1, wherein the polymeric substrate is formed into a component having at least one curved surface.

15. A laminate system, comprising:

a thermoformable support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F; and

a polymeric substrate in abutting relationship with the support film;

wherein the support film is operable to releasably adhere to and support the polymeric substrate during a thermoforming process.

- 16. The invention according to claim 15, further comprising a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 17. The invention according to claim 15, further comprising an adhesive film in abutting relationship with the support film.
- 18. The invention according to claim 15, further comprising a release layer in abutting relationship with the support film.
- 19. The invention according to claim 18, wherein the release layer is operable to releasably adhere to the polymeric substrate.
- 20. The invention according to claim 19, further comprising a paint or color-containing film system in abutting relationship with the release layer.

- 21. The invention according to claim 20, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 22. The invention according to claim 20, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 23. The invention according to claim 15, further comprising a paint or color-containing film system in abutting relationship with the support film.
- 24. The invention according to claim 23, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 25. The invention according to claim 23, wherein the support film is operable to releasably adhere to the paint or color-containing film system.
- 26. The invention according to claim 15, wherein the polymeric substrate is formed into an automotive component.
- 27. The invention according to claim 15, wherein the polymeric substrate is formed into a component having at least one curved surface.

28. A support film system, comprising:

a thermoformable support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F; and

a release layer in abutting relationship with the support film;

wherein the release layer is operable to releasably adhere to a polymeric substrate during a thermoforming process;

wherein the support film is operable to support the polymeric substrate during the thermoforming process.

- 29. The invention according to claim 28, further comprising a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 30. The invention according to claim 28, further comprising an adhesive film in abutting relationship with the support film.
- 31. The invention according to claim 28, further comprising a polymeric substrate in abutting relationship with the release layer.
- 32. The invention according to claim 31, further comprising a paint or color-containing film system in abutting relationship with the release layer.

- 33. The invention according to claim 32, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 34. The invention according to claim 32, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 35. The invention according to claim 28, further comprising a paint or color-containing film system in abutting relationship with the support film.
- 36. The invention according to claim 35, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 37. The invention according to claim 35, wherein the support film is operable to releasably adhere to the paint or color-containing film system.
- 38. The invention according to claim 28, wherein the polymeric substrate is formed into an automotive component.
- 39. The invention according to claim 28, wherein the polymeric substrate is formed into a component having at least one curved surface.

40. A thermoformable support film system, comprised of:

a support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F, wherein the support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process; and

a paint or color-containing film system in abutting relationship with the support film;

wherein the support film is operable to releasably adhere to the paint or colorcontaining film system.

- 41. The invention according to claim 40, further comprising a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 42. The invention according to claim 40, further comprising an adhesive film in abutting relationship with the support film.
- 43. The invention according to claim 40, further comprising a polymeric substrate in abutting relationship with the support film.
- 44. The invention according to claim 43, further comprising a release layer in abutting relationship with the support film.

- 45. The invention according to claim 44, wherein the release layer is operable to releasably adhere to the polymeric substrate.
- 46. The invention according to claim 44, wherein the paint or color-containing film system is in abutting relationship with the release layer.
- 47. The invention according to claim 44, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 48. The invention according to claim 44, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 49. The invention according to claim 40, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 50. The invention according to claim 40, wherein the polymeric substrate is formed into an automotive component.
- 51. The invention according to claim 40, wherein the polymeric substrate is formed into a component having at least one curved surface.

52. A thermoformable support film system comprised of:

a support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F, wherein the support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process;

a paint or color-containing film system in abutting relationship with the support film;

an adhesive film system in abutting relationship with the paint or color-containing film system; and

wherein the support film is operable to releasably adhere to the paint or colorcontaining film system.

- 53. The invention according to claim 52, further comprising a polymeric substrate in abutting relationship with the support film.
- 54. The invention according to claim 53, further comprising a release layer in abutting relationship with the support film.
- 55. The invention according to claim 54, wherein the release layer is operable to releasably adhere to the polymeric substrate.
- 56. The invention according to claim 54, wherein the paint or color-containing film system is in abutting relationship with the release layer.

- 57. The invention according to claim 54, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 58. The invention according to claim 52, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 59. The invention according to claim 52, wherein the polymeric substrate is formed into an automotive component.
- 60. The invention according to claim 52, wherein the polymeric substrate is formed into a component having at least one curved surface.
 - 61. A method for forming a support film system, comprising:

providing a release layer in abutting relationship with the support film;

wherein the release layer is operable to releasably adhere to a polymeric substrate during a thermoforming process; and

wherein the support film is operable to support the polymeric substrate during the thermoforming process.

- 62. The invention according to claim 61, further comprising providing a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 63. The invention according to claim 61, further comprising providing an adhesive film in abutting relationship with the support film.
- 64. The invention according to claim 61, further comprising providing a polymeric substrate in abutting relationship with either the support film or the release layer.
- 65. The invention according to claim 61, further comprising providing a paint or color-containing film system in abutting relationship with either the support film or the release layer.
- 66. The invention according to claim 65, further comprising providing an adhesive film system in abutting relationship with the paint or color-containing film system.
- 67. The invention according to claim 65, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.
- 68. The invention according to claim 65, wherein the support film is operable to releasably adhere to the paint or color-containing film system.

- 69. The invention according to claim 61, further comprising a paint or colorcontaining film system in abutting relationship with the support film.
- 70. The invention according to claim 69, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 71. The invention according to claim 69, wherein the support film is operable to releasably adhere to the paint or color-containing film system.
- 72. The invention according to claim 61, wherein the polymeric substrate is formed into an automotive component.
- 73. The invention according to claim 61, wherein the polymeric substrate is formed into a component having at least one curved surface.
 - 74. A method for forming a laminate system, comprising:

providing a polymeric substrate in abutting relationship with the support film; and wherein the support film is operable to releasably adhere to and support the polymeric substrate during a thermoforming process.

- 75. The invention according to claim 74, further comprising providing a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 76. The invention according to claim 74, further comprising providing an adhesive film in abutting relationship with the support film.
- 77. The invention according to claim 74, further comprising a release layer in abutting relationship with either the support film or the polymeric substrate.
- 78. The invention according to claim 77, wherein the release layer is operable to releasably adhere to the polymeric substrate.
- 79. The invention according to claim 77, further comprising a paint or color-containing film system in abutting relationship with either the release layer or the polymeric substrate.
- 80. The invention according to claim 79, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 81. The invention according to claim 79, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.

- 82. The invention according to claim 74, further comprising a paint or color-containing film system in abutting relationship with the support film.
- 83. The invention according to claim 82, further comprising an adhesive film system in abutting relationship with the paint or color-containing film system.
- 84. The invention according to claim 82, wherein the support film is operable to releasably adhere to the paint or color-containing film system.
- 85. The invention according to claim 74, wherein the polymeric substrate is formed into an automotive component.
- 86. The invention according to claim 74, wherein the polymeric substrate is formed into a component having at least one curved surface.

87. A method for forming a laminate system, comprising:

system;

providing a thermoformable support film comprised of a material having a tensile strength greater than 0.5 pli at 300°F;

providing a release layer in abutting relationship with the support film;
providing a surfacing film system in abutting relationship with the release layer;
providing a polymeric substrate in abutting relationship with the surfacing film

wherein the release layer is operable to releasably adhere to the surfacing film system during the thermoforming process; and

wherein the support film is operable to support the polymeric substrate during the thermoforming process.

- 88. The invention according to claim 87, further comprising providing a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process
- 89. The invention according to claim 87, further comprising providing an adhesive film in abutting relationship with the support film.
- 90. The invention according to claim 87, further comprising providing an adhesive film system in abutting relationship with the surfacing film system.

- 91. The invention according to claim 87, wherein the surfacing film system comprises a paint or color-containing film system.
- 92. The invention according to claim 87, wherein the polymeric substrate is formed into an automotive component.
- 93. The invention according to claim 87, wherein the polymeric substrate is formed into a component having at least one curved surface.
 - 94. A method for forming a support film system, comprising:

providing a paint or color-containing film system in abutting relationship with the support film; and

wherein the support film is operable to releasably adhere to and support the paint or color-containing film system during a thermoforming process.

95. The invention according to claim 94, further comprising providing a second thermoformable film having a tensile strength greater than 0.5 pli at 300°F, wherein the second support film is operable to releasably adhere to and support a polymeric substrate during a thermoforming process.

- 96. The invention according to claim 94, further comprising providing an adhesive film in abutting relationship with the support film.
- 97. The invention according to claim 94, further comprising providing a polymeric substrate in abutting relationship with the support film.
- 98. The invention according to claim 97, wherein the polymeric substrate is formed into an automotive component.
- 99. The invention according to claim 97, wherein the polymeric substrate is formed into a component having at least one curved surface.
- 100. The invention according to claim 97, further comprising providing a release layer in abutting relationship with either the paint or color-containing film system or the polymeric substrate.
- 101. The invention according to claim 100, wherein the release layer is operable to releasably adhere to either the paint or color-containing film system or the polymeric substrate.
- 102. The invention according to claim 94, wherein the paint or color-containing film system is in abutting relationship with the polymeric substrate.

- 103. The invention according to claim 94, further comprising providing an adhesive film system in abutting relationship with the paint or color-containing film system.
 - 104. A method for forming a support film system, comprising:

providing a paint or color-containing film system in abutting relationship with the support film;

providing an adhesive film system in abutting relationship with the paint or colorcontaining film system; and

wherein the support film is operable to releasably adhere to and support the paint or color-containing film system during a thermoforming process.

- 105. The invention according to claim 104, further comprising providing a polymeric substrate in abutting relationship with the support film.
- 106. The invention according to claim 105, wherein the polymeric substrate is formed into an automotive component.
- 107. The invention according to claim 105, wherein the polymeric substrate is formed into a component having at least one curved surface.

- 108. The invention according to claim 105, further comprising providing a release layer in abutting relationship with either the paint or color-containing film system or the polymeric substrate.
- 109. The invention according to claim 108, wherein the release layer is operable to releasably adhere to the paint or color-containing film system.